

Light is OSRAM

OPTOTRONIC® LED Power Supply

OT 35W Current Select – Technical Specifications



General Information

Type	Constant Current, Class 2
Output Power	35W (Max.)

Environmental Specifications

Ambient Operating Temperature	-20°C to 50°C
Case Temperature (T _c)	70°C (50kHrs) ¹
Max. Storage Temp.	70°C
Max. Relative Humidity	85% non-condensing
Transient Protection	ANSI C62.41 Cat. A 2.5kV Ring Wave
EFT	IEC 61000-4-4 (1kV)
UL Rating	Dry & Damp
UL File number	E320395
EMI Compliance	FCC Part 15 Class A
Sound Rating	Class A

1 – Warranty applicable only at 70°C

2 – Complies with NEMA 410 inrush current

3 – Dimming input is isolated, Class 2 or non-Class 2 wiring allowed

Electrical Specifications

Input

Input Voltage (VAC)	120V-277V (+/- 10%)	
Frequency Range (Hz)	50 – 60 Hz (+/- 10%)	
	120V	277V
Input Current (A)	0.35	0.15
THD @ Full load	<20%	<20%
Power Factor @ Full load	>0.9	>0.9
Efficiency @ Full load	≥85%	≥85%
Inrush Current (A _{pk} , T@50% of A _{pk}) ²	5.6A, 130µs	14.6A, 110µs

Output

Output Current (mA)	350mA/625mA/750mA
Output Voltage (VDC)	20-46VDC
Output Ripple Current	<30% @ full load
Max. Output Power (W)	35W
LED Power-Up Time	<1sec
Load Regulation	<5% @ 750mA
Line Regulation	<5% @ 750mA
Over Voltage (4V over limit)	Yes, non-latching
Output Short-Circuit Protection	Yes, non-latching

Dimming

Dimming Control	0 – 10V ³
Dimming Range	10-100%
Dimming Type	Current Reduction
Dimming Input Isolation	2.5kV
Source Current	2mA max

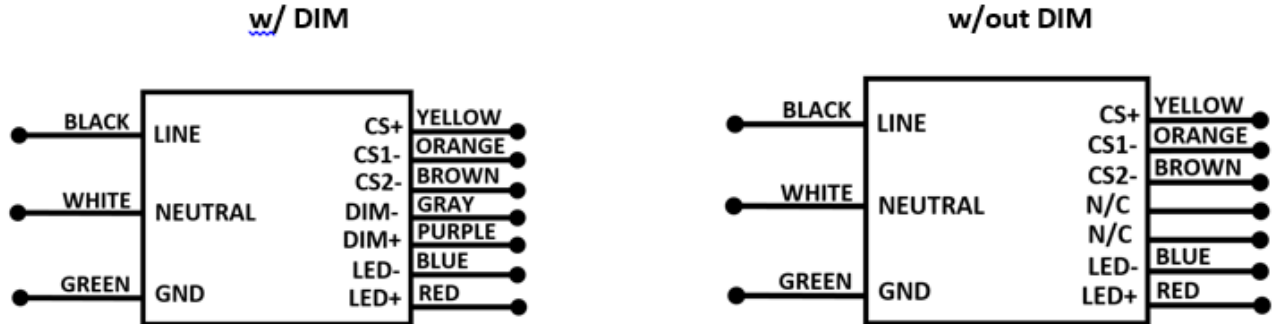


OT35W Current Select – Technical Specifications

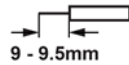
Ordering Guide

NAED	Ordering Description
57435	OT 35W/UNV/0A7 CS L
57436	OT 35W/UNV/0A7 CS DIM L

Wiring Diagram



- Note:** Maximum suggested remote mounting distance is 8 feet.
- Note:** Use solid copper wire only (16-22 AWG).
- Note:** For Connections Use Wire Rated for at Least 90°C (194°F) or equivalent.
- Note:** Strip as below for all wires.



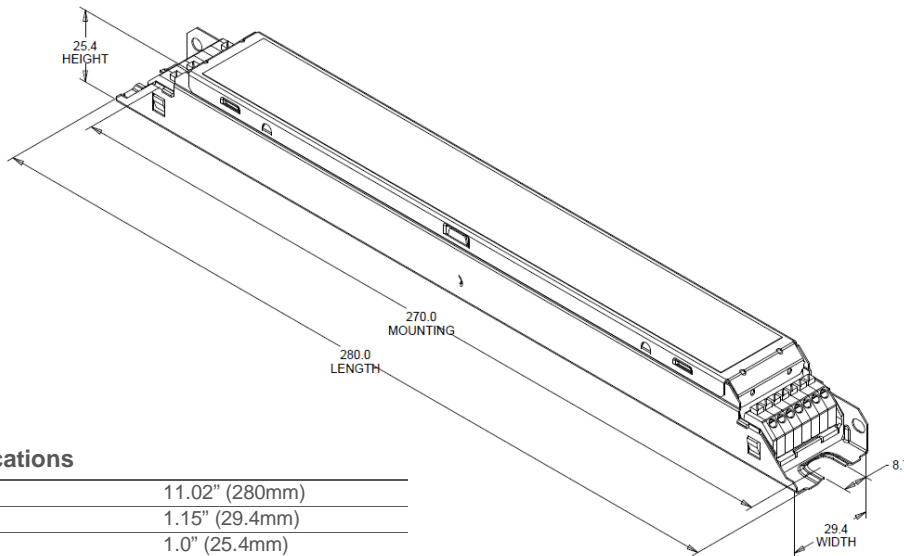
Selecting Currents

To select the desired output current value, short the output pins corresponding to the table below:

	No Short-Circuit	Short CS+ and CS1-	Short CS+ and CS2-
OT35W	350mA	750mA	625mA

Note: The jumper wire should be completely insulated and conductive parts must not be accessible when installed on the driver's output connector

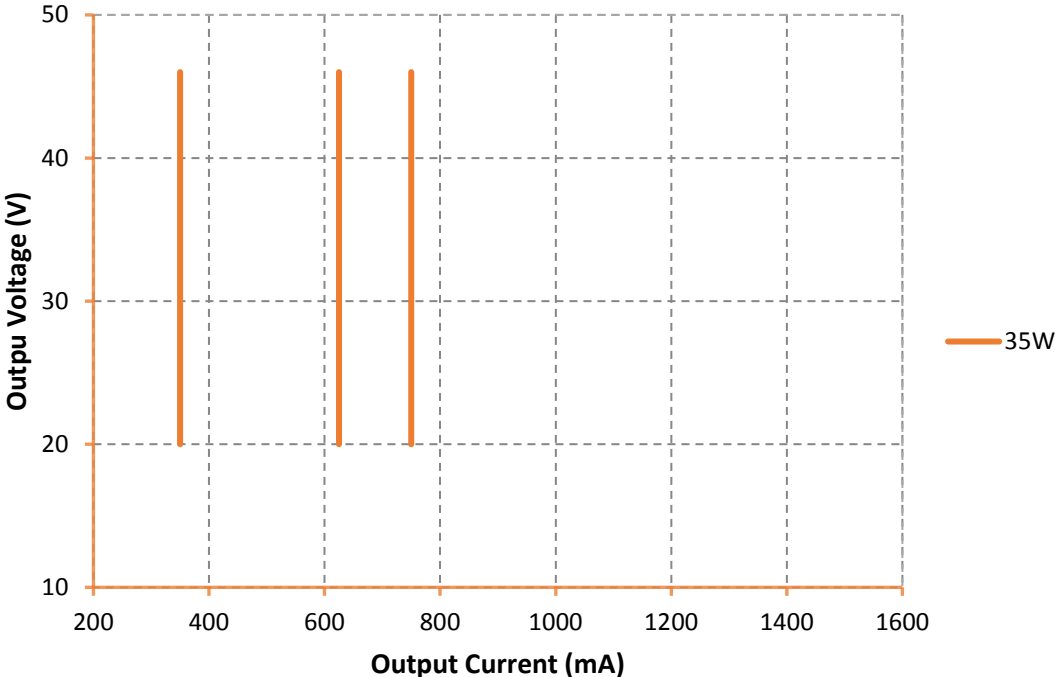
Mechanical Diagram



Mechanical Specifications

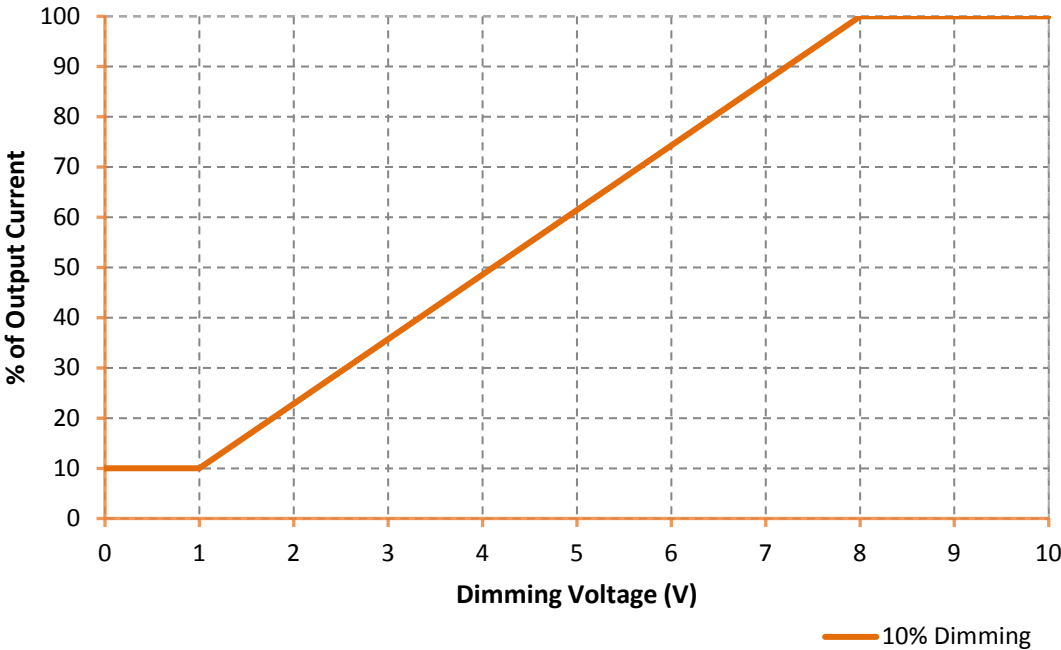
Length	11.02" (280mm)
Width	1.15" (29.4mm)
Height	1.0" (25.4mm)
Mounting Length	10.63" (270mm)

Operating Range

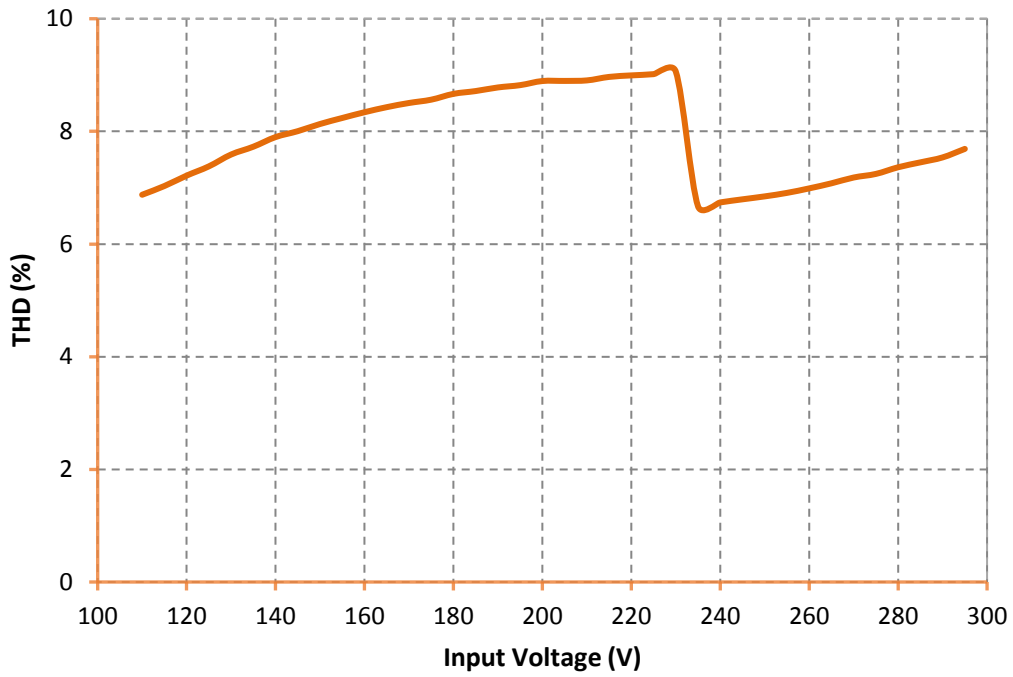


Note: meeting DLC requirements requires minimum 50% loading.

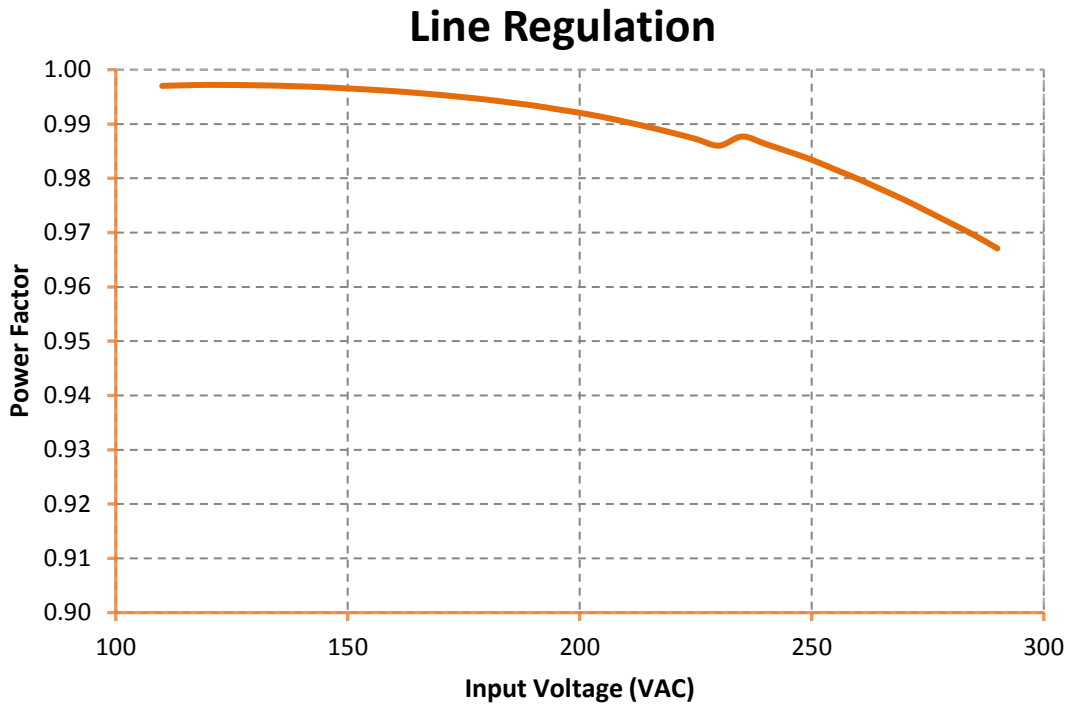
Dimming Curve



THD vs Input Voltage (Full Load)

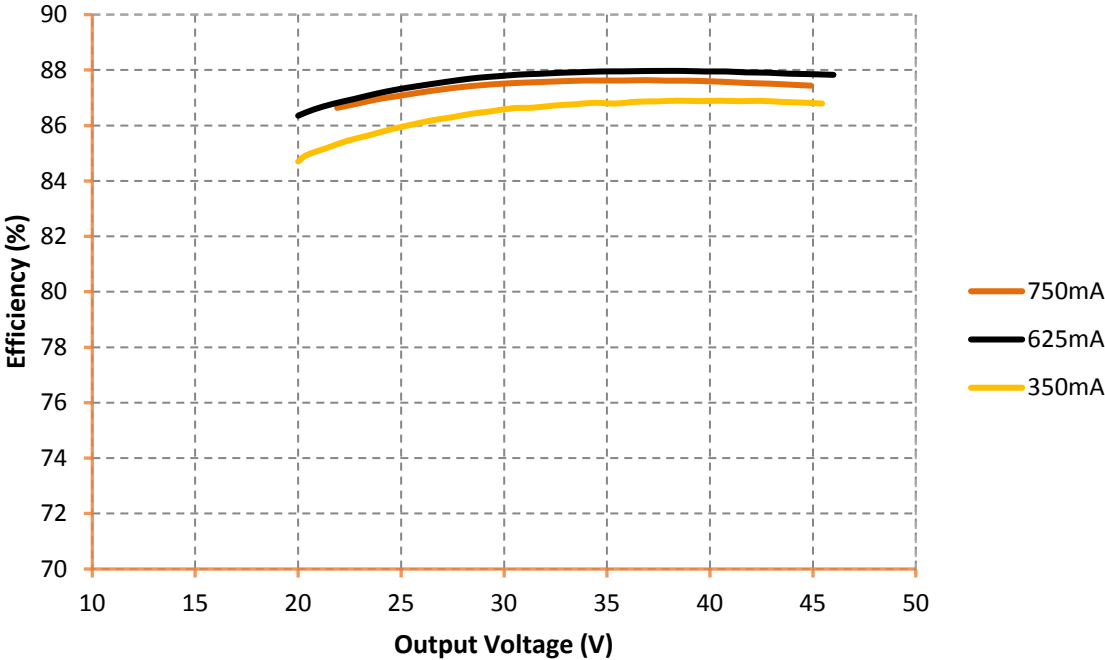


Power Factor vs Input Voltage (Full Load)

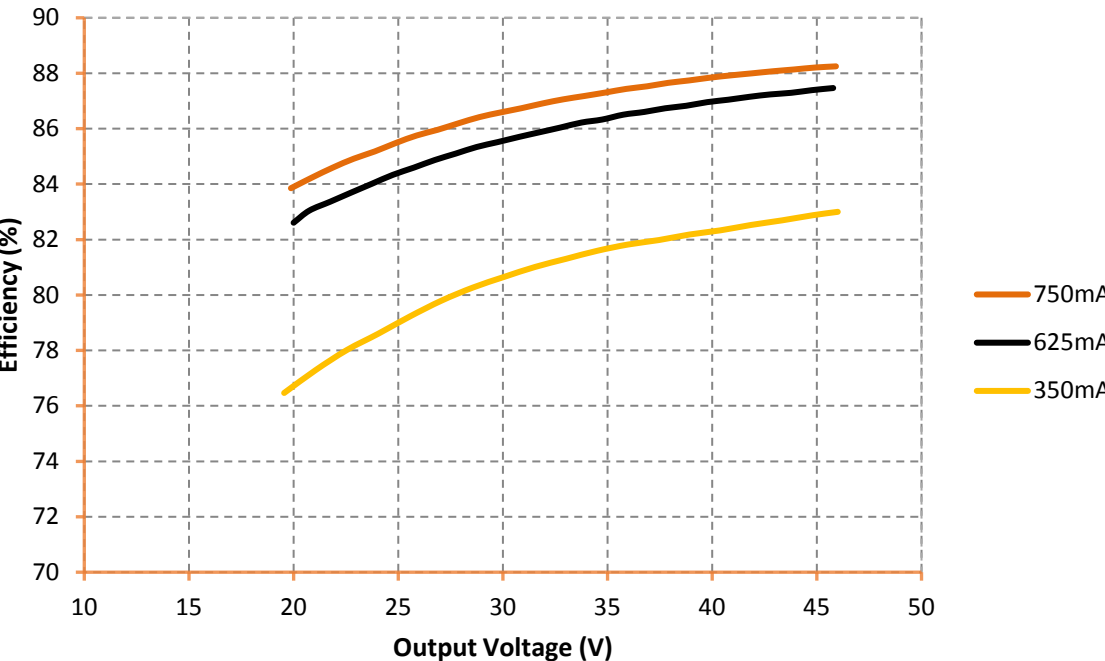


Efficiency vs Output Voltage

Efficiency @ 120V

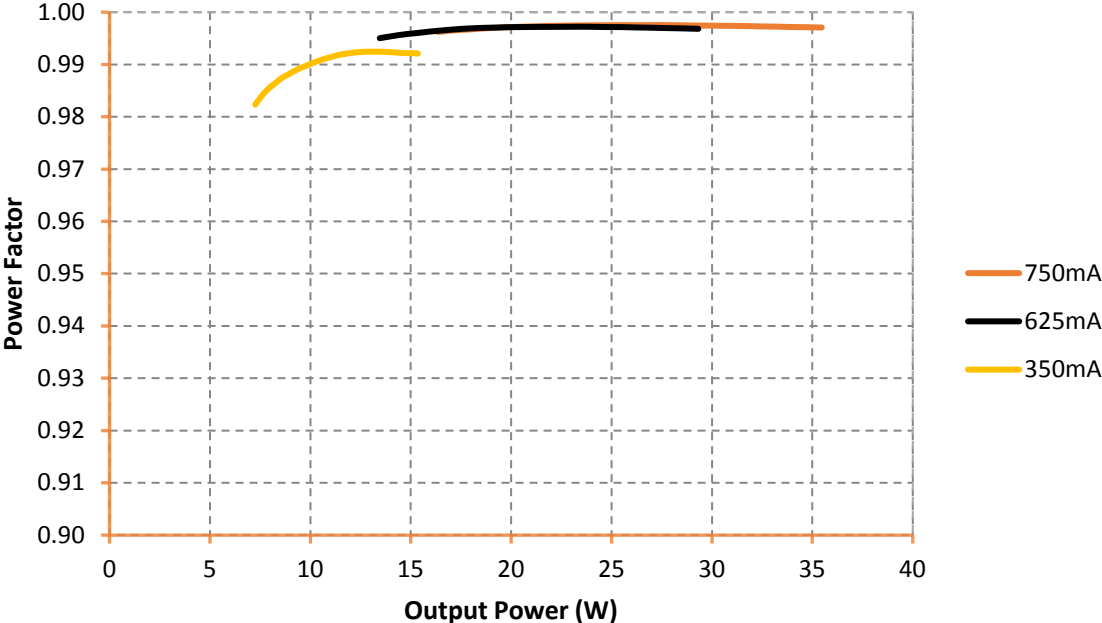


Efficiency @ 277V

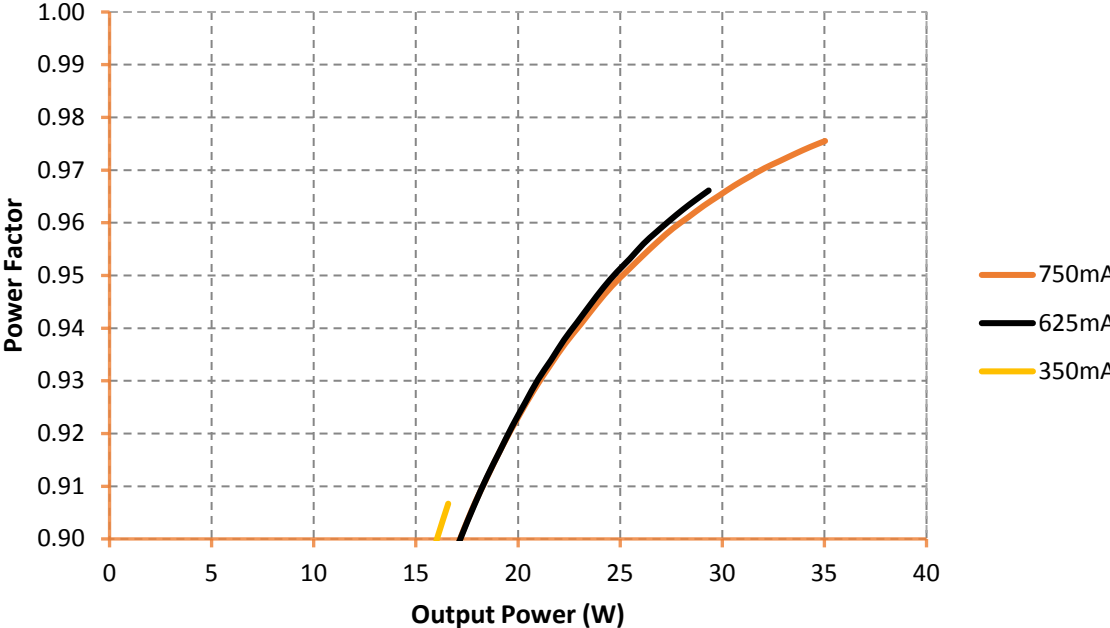


Power Factor vs Load

Power Factor vs Output Power (120V)

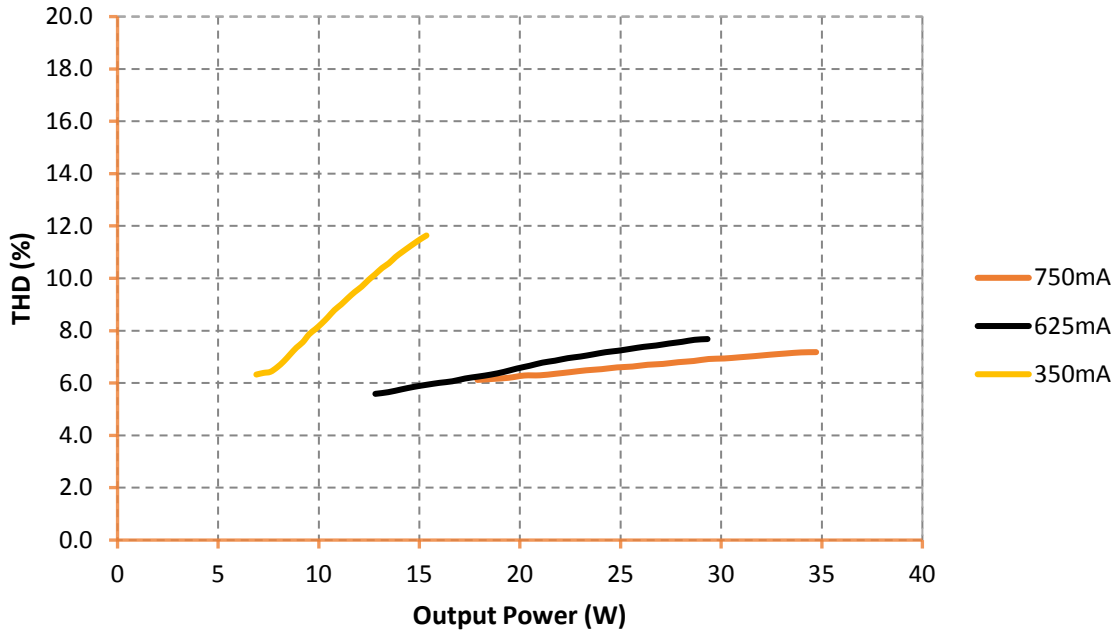


Power Factor vs Output Power (277V)

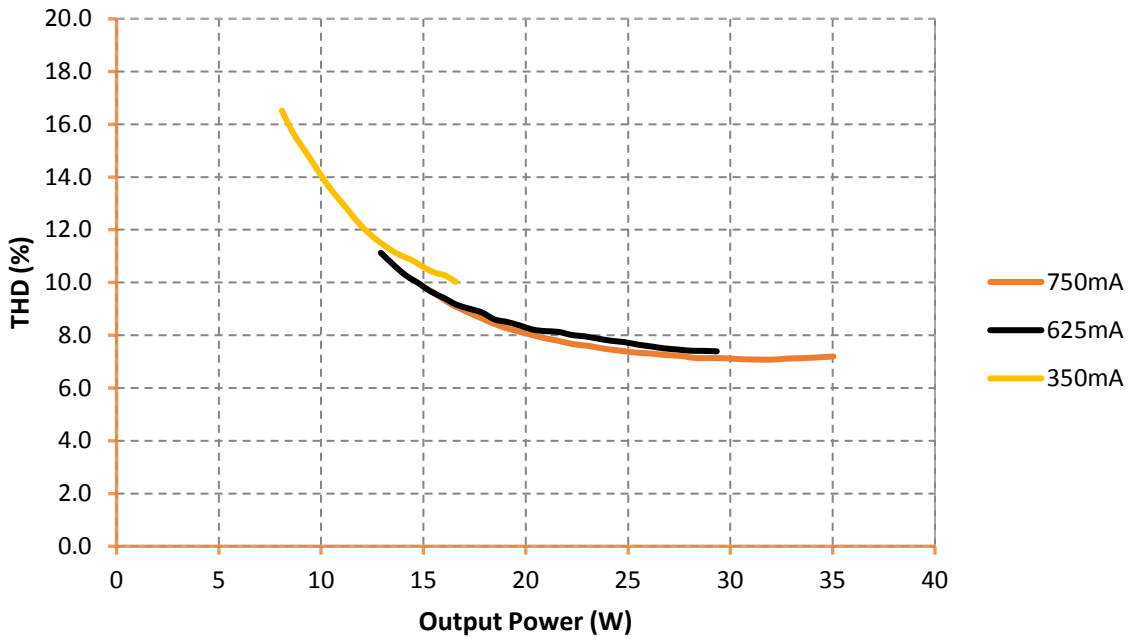


THD vs Load

THD vs Output Power (120V)



THD vs Output Power (277V)



Warranty

OPTOTRONIC® products are covered by our LED Module, OPTOTRONIC Power Supply or Control Warranty. For additional details, refer to the latest version of the warranty (LED395) available at www.osram.us/optotronic

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